

**CHEMICAL REFERENCES / NON-CANCER**

Chemical Name	CAS Number	Chronic	Subchronic	Chronic	Subchronic
		Oral RfD	Oral RfD	Inhalation RfC	Inhalation RfC
		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Acenaphthene	83329	IRIS	HEAST		
Acenaphthylene	208968				
Acephate	30560191	IRIS	HEAST		
Acetaldehyde	75070			IRIS	
Acetone	67641	IRIS	HEAST	ATC	
Acetone Cyanohydrin	75865	HEAST	HEAST	HEAST	HEAST
Acetonitrile	75058	Withdrawn from IRIS	HEAST	IRIS	HEAST
Acetophenone	98862	IRIS	HEAST	Withdrawn from HEAST	Withdrawn from HEAST
Acetyl Chloride	75365				
Acifluorfen, sodium	62476599	IRIS			
Acrolein	107028	HEAST	Withdrawn from HEAST	IRIS	Withdrawn from HEAST
Acrylamide	79061	IRIS	HEAST		
Acrylic acid	79107	IRIS	HEAST	IRIS	HEAST
Acrylonitrile	107131	HEAST	HEAST	IRIS	
Alachlor	15972608	IRIS	HEAST		
Aldicarb	116063	IRIS	HEAST		
Aldicarb sulfone	1646884	IRIS			
Aldrin	309002	IRIS	HEAST		
Alkanes/Alkenes				ATC	
Allyl Alcohol	107186	IRIS	HEAST		
Allyl Chloride	107051	Withdrawn from HEAST	Withdrawn from HEAST	IRIS	HEAST
Aluminum phosphide	20859738	IRIS	HEAST		
Ametryn	834128	IRIS	HEAST		
Aminophenol, m-	591275	HEAST	HEAST		
Aminopyridine, 4-	504245	HEAST	HEAST		
Ammonia	7664417	Developed by DEP/ORS		IRIS	HEAST
Ammonium Acetate	631618				
Ammonium Methacrylate	16325476				
Aniline	62533			IRIS	HEAST
Anthracene	120127	IRIS	HEAST		
Antimony	7440360	IRIS	HEAST	ATC	
Antimony Pentoxide	1314609	HEAST	HEAST		
Antimony Potassium Tartrate	28300745	HEAST	HEAST		
Antimony Tetroxide		HEAST	HEAST		
Antimony Trioxide	1309644	HEAST	HEAST	IRIS	HEAST
Apollo	74115245	IRIS			
Aramite	140578	HEAST	HEAST		
Aroclor 1016	12674112	IRIS			
Aroclor 1254	11097691	IRIS	HEAST	ATC	
Arsenic	7440382	IRIS	HEAST	ATC	
Asbestos	1332214			ATC	
Assure	76578148	IRIS			
Atrazine	1912249	IRIS	HEAST		

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		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Azobenzene	103333				
Barium	7440393	IRIS	HEAST	HEAST	HEAST
Barium Cyanide	542621	Withdrawn from HEAST	Withdrawn from HEAST		
Baygon	114261	IRIS			
Bayleton	43121433	IRIS			
Benefin	1861401	IRIS	HEAST		
Benzaldehyde	100527	IRIS	HEAST		
Benzene	71432	ShortForm	ShortForm	ATC	ShortForm
Benzidine	92875	IRIS	HEAST		
Benzoic acid	65850	IRIS	HEAST		
Benzotrichloride	98077				
Benzo(a)anthracene	56553				
Benzo(b)fluoranthene	205992				
Benzo[a]pyrene	50328				
Benzo[k]fluoranthene	207089				
Benzyl Alcohol	100516	HEAST	HEAST		
Benzyl Chloride	100447			ATC	
Beryllium	7440417	IRIS	HEAST	IRIS	
Biphenthrin	82657043	IRIS			
Biphenyl, 1,1-	92524	IRIS	HEAST	ATC	
Bisphenol A	80057	IRIS	HEAST		
Bis(2chloro-1methylethyl)ether	108601				
Bis(2-chloroethyl)ether	111444				
Bis(2-ethylhexyl)phthalate	117817	IRIS	Withdrawn from HEAST	ATC	
Bis(chloromethyl)ether	542881				
Boron	7440428	IRIS	Withdrawn from HEAST	HEAST	HEAST
Bromodichloromethane	75274	IRIS	HEAST		
Bromoform	75252	IRIS	HEAST		
Bromomethane	74839	IRIS	Withdrawn from HEAST	IRIS	Withdrawn from HEAST
Bromophos		HEAST	HEAST		
Bromoxynil	1689845	IRIS	HEAST		
Bromoxynil Octanoate	1689992	IRIS	HEAST		
Butadiene, 1,3-	106990			ATC	
Butanol, n-	71363	IRIS	HEAST	ATC	
Butyl Benzyl Phthalate	85687	IRIS	HEAST		
Butylate	2008415	IRIS	HEAST		
Butylphthalyl Butylglycolate	85701	IRIS			
Cacodylic Acid	75605	HEAST	HEAST		
Cadmium	7440439	IRIS		ATC	
Calcium Chromate	13765190			ATC	
Calcium Cyanide	592018	IRIS	HEAST		
Caprolactam	105602	IRIS	HEAST		
Captafol	2425061	IRIS	HEAST		

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		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Captan	133062	IRIS	HEAST		
Carbaryl	63252	IRIS	HEAST		
Carbazole	86748				
Carbofuran	1563662	IRIS	HEAST		
Carbon Disulfide	75150	IRIS	HEAST	IRIS	HEAST
Carbon Tetrachloride	56235	IRIS	Withdrawn from HEAST	ATC	
Carboxin	5234684	IRIS			
Chloral	75876	IRIS	HEAST		
Chloramben	133904	IRIS			
Chloranil	118752				
Chlordane	57749	IRIS	HEAST	ATC	
Chlorine	7782505	IRIS		ATC	
Chlorine Dioxide	10049044			IRIS	
Chloroacetic Acid	79118	HEAST	HEAST		
Chloroacetophenone, 2-	532274			IRIS	
Chloroaniline, 4-	106478	IRIS	HEAST		
Chlorobenzene	108907	IRIS	Withdrawn from HEAST	HEAST	Withdrawn from HEAST
Chlorobenzilate	510156	IRIS	HEAST		
Chlorobenzoic Acid, para-	74113	HEAST	HEAST		
Chlorobenzotrifluoride, 4-		HEAST	HEAST		
Chlorobutane, 1-	109693	HEAST	HEAST		
Chlorobutane, 2-	78864				
Chloroethane	75003			IRIS	HEAST
Chloroform	67663	IRIS	HEAST	ATC	
Chloromethane	74873				
Chloromethyl Methyl Ether	107302				
Chloronaphthalene, beta	91587	IRIS			
Chloronitrobenzene, o-	88733				
Chloronitrobenzene, p-	100005				
Chlorophenol, 2-	95578	IRIS	HEAST		
Chloroprene	126998	HEAST	HEAST	HEAST	HEAST
Chloropropane, 2-				HEAST	HEAST
Chlorothalonil	1897456	IRIS	HEAST		
Chloro-2-2-methyl-aniline Hy, 4-	3165933				
Chloro-2-methyl-aniline, 4-	95692				
Chlorpropham	101213	IRIS			
Chlorpyrifos	2921882	IRIS	HEAST		
Chlorpyrifos-methyl	5598130	HEAST	HEAST		
Chlorsulfuron	64902723	IRIS			
Chlorthiophos	21923239	HEAST	HEAST		
Chromic Acid	7738945			ATC	
Chromium III	16065831	IRIS	HEAST	Withdrawn from HEAST	Withdrawn from HEAST
Chromium VI	18540299	IRIS	HEAST	Consult IRIS/Call ORS	Withdrawn from HEAST

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		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Chrysene	218019				
Coal Tars					
Coke Oven Emissions	8007452				
Copper	7440508	Developed by DEP/ORS		ATC	
Creosote	8001589				
Cresol, meta-	108394	IRIS	HEAST		
Cresol, ortho-	95487	IRIS	HEAST		
Cresol, para-	106445	HEAST	HEAST	ATC	
Crotonaldehyde	123739				
Cumene	98828	IRIS	HEAST	IRIS	HEAST
Cyanazine	21725462	HEAST	HEAST		
Cyanide	57125	IRIS	HEAST	ShortForm	ShortForm
Cyanogen	460195	IRIS	HEAST		
Cyclohexane	110827			ATC	
Cyclohexylamine	108918	IRIS	HEAST		
Cyclonite (RDX)	121824	IRIS	HEAST		
Cyromazine	66215278	IRIS			
D, 2,4-	94757	IRIS			
Dacthal (DCPA)	1861321	IRIS	HEAST		
Dalapon (sodium salts)	75990	IRIS	HEAST		
DB, 2,4-	94826	IRIS	HEAST		
DBCP	96128	Withdrawn from IRIS		IRIS	
DDD	72548				
DDE	72559				
DDT	50293	IRIS	HEAST		
Decabromodiphenyl Ether	1163195	IRIS	HEAST		
Demeton	8065483	IRIS			
Diallate	2303164				
Diazinon	333415	HEAST	HEAST		
Dibenzofuran	132649				
Dibromobenzene, 1,4-	106376	IRIS	HEAST		
Dibromochloromethane	124481	IRIS	HEAST		
Dibromoethane, 1,2-	106934	ShortForm	ShortForm	HEAST	HEAST
Dicamba	1918009	IRIS	HEAST		
Dichlorobenzene, 1,3-	541731				
Dichlorobenzene, ortho-	95501	IRIS	Withdrawn from HEAST	HEAST	HEAST
Dichlorobenzene, para-	106467			IRIS	HEAST
Dichlorobenzidene, 3,3-	91941				
Dichlorodifluoromethane	75718	IRIS	HEAST	HEAST	HEAST
Dichloroethane, 1,1-	75343	HEAST	HEAST	HEAST	HEAST
Dichloroethane, 1,2-	107062	ShortForm	ShortForm	ATC	
Dichloroethylene, 1,1-	75354	IRIS	HEAST	ATC	
Dichloroethylene, cis-1,2-	156592	HEAST	HEAST		

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		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Dichloroethylene, trans-1,2-	156605	IRIS	HEAST		
Dichloroethylene (mixed)	540590	HEAST	HEAST	ATC	
Dichloromethane	75092	IRIS	HEAST	HEAST	HEAST
Dichlorophenol, 2,4-	120832	IRIS	HEAST		
Dichloropropane, 1,2-	78875			IRIS	HEAST
Dichloropropanol, 2,3-	616239	IRIS			
Dichloropropene, 1,3-	542756	IRIS	HEAST	IRIS	HEAST
Dichloro-2-butene, 1,4-	764410				
Dichlorvos	62737	IRIS		IRIS	
Dicofol	115322				
Dicyclopentadiene		HEAST	HEAST	HEAST	HEAST
Dieldrin	60571	IRIS	HEAST		
Diethyl Phthalate	84662	IRIS	HEAST		
Diethylene Glycol Monobutyl Et	112345			HEAST	HEAST
Diethylene Glycol Monoethyl Et	111900	HEAST	HEAST		
Diethylformamide		HEAST	HEAST		
Diethyl-p-nitrophenylphosphate	311455				
Diflubenzuron	35367385	IRIS			
Dimethoate	60515	IRIS	HEAST		
Dimethoxybenzidine, 3,3-	119904				
Dimethyl Sulfate	77781				
Dimethyl Terephthalate	120616	IRIS	HEAST		
Dimethylamine	124403				
Dimethylaniline, 2,4-	121697	IRIS	HEAST		
Dimethylaniline Hydrochlor, 2,4-	21436964				
Dimethylbenzidine, 3,3-	119937				
Dimethylformamide, N,N-	68122	HEAST	HEAST	IRIS	HEAST
Dimethylhydrazine, 1,1-	57147				
Dimethylhydrazine, 1,2-	540738				
Dimethylphenol, 2,4-	105679	IRIS	HEAST		
Dimethylphenol, 2,6-	576261	IRIS	HEAST		
Dimethylphenol, 3,4-	95658	IRIS	HEAST		
Dimethylphthalate	131113	Withdrawn from HEAST	Withdrawn from HEAST		
DIMP	1445756	IRIS			
Dinitrobenzene, m-	99650	IRIS	HEAST		
Dinitrobenzene, o-	528290	HEAST	HEAST		
Dinitrobenzene, p-	100254	HEAST	HEAST		
Dinitrophenol, 2,4-	51285	IRIS	HEAST		
Dinitrotoluene, 2,4-	121142	IRIS	HEAST		
Dinitrotoluene, 2,6-	606202	HEAST	HEAST		
Dinitrotoluene (mixture)					
Dinitro-o-cresol, 4,6-	534521	IRIS	HEAST		
Dinoseb	88857				

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		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Dioxane, 1,4-	123911			ATC	
Diphenamid	957517	IRIS			
Diphenyl	92524			ATC	
Diphenylamine, N,N-	122394	IRIS	HEAST	ATC	
Diphenylhydrazine, 1,2-	122667				
Diquat	85007	IRIS			
Direct Black 38	1937377				
Direct Blue 6	2602462				
Direct Brown 95	16071866				
Direct Sky Blue 6B	2610051				
Disulfoton	298044	IRIS	HEAST		
Dithiane, 1,4-	505293	IRIS			
Di(2-ethylhexyl)adipate	103231	IRIS			
Di-n-butyl Phthalate	84742	IRIS	HEAST		
Dodine	2439103	IRIS			
Endosulfan	115297	IRIS	HEAST		
Endothall	145733	IRIS	HEAST		
Endrin	72208	IRIS	HEAST		
Epichlorohydrin	106898	HEAST	HEAST	IRIS	HEAST
Epoxybutane, 1,2-	106887			IRIS	
Ethanol	64175			ATC	
Ethion	563122	IRIS			
Ethoxyethanol, 2-	110805	HEAST	HEAST	IRIS	HEAST
Ethoxyethanol Acetate, 2-		HEAST	HEAST		
Ethyl Acetate	141786	IRIS	HEAST	ATC	
Ethyl Acrylate	140885			ATC	
Ethyl Chloride	75003			IRIS	HEAST
Ethyl Dipropylthiocarbamate,S-	759944	IRIS	HEAST		
Ethyl Ether	60297	IRIS	HEAST	ATC	
Ethyl Methacrylate	97632	HEAST	HEAST		
Ethyl p-Nitrophenyl Phenylphos	2104645	IRIS			
Ethylbenzene	100414	IRIS	Withdrawn from HEAST	IRIS	Withdrawn from HEAST
Ethylene Cyanohydrin		HEAST	HEAST		
Ethylene Dibromide	106934	ShortForm	ShortForm	HEAST	HEAST
Ethylene Glycol	107211	IRIS	HEAST	ATC	
Ethylene Glycol Monobutyl Ethe	111762			HEAST	HEAST
Ethylene Oxide	75218				
Ethylene Thiourea	96457	IRIS	HEAST		
Ethylenediamine	107153	HEAST	HEAST		Withdrawn from HEAST
Express	101200480	IRIS			
Fenamiphos	22224926	IRIS			
Fluoranthene	206440	IRIS	HEAST		
Fluorene	86737	IRIS	HEAST		

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		Oral RfD	Oral RfD	Inhalation RfC	Inhalation RfC
		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Fluoride	7782414	IRIS	HEAST	ATC	
Fluridone	59756604	IRIS	HEAST		
Folpet	133073	IRIS	HEAST		
Fonofos	944229	IRIS			
Formaldehyde	50000	IRIS	HEAST	ATC	
Furan	110009	IRIS	HEAST	ATC	
Furazolidone	67458				
Furfural	98011	IRIS	HEAST	HEAST	HEAST
Furium	531828				
Glycidaldehyde	765344	IRIS	HEAST	HEAST	HEAST
Heptachlor	76448	IRIS	HEAST	ATC	
Heptachlor Epoxide	1024573	IRIS	HEAST		
Heptane, n-	142825				
Hexabromobenzene	87821	IRIS	HEAST		
Hexachlorobenzene	118741	IRIS	Withdrawn from HEAST		
Hexachlorobutadiene	87683	HEAST	Withdrawn from HEAST		
Hexachlorocyclohexane, alpha-	319846				
Hexachlorocyclohexane, beta-	319857				
Hexachlorocyclohexane, delta-	319868				
Hexachlorocyclohexane, epsilon	6108107				
Hexachlorocyclohexane, gamma-	58899	IRIS	HEAST		
Hexachlorocyclopentadiene	77474	IRIS	HEAST	HEAST	HEAST
Hexachloroethane	67721	IRIS	HEAST	ATC	
Hexachlorophene	70304	IRIS	HEAST		
Hexane, n-	110543	HEAST	HEAST	IRIS	HEAST
Hexanone, 2-	591786			ATC	
Hexazinone	51235042	IRIS			
Hydrazine	302012			ATC	
Hydrogen Chloride	7647010			IRIS	
Hydrogen Cyanide	74908	IRIS		IRIS	
Hydrogen Fluoride	7664393			ATC	
Hydrogen Sulfide	7783064	IRIS	HEAST	IRIS	HEAST
Hydroquinone	123319	HEAST	HEAST		
Isoamyl Acetate	123922			ATC	
Isobutyl Acetate	110190			ATC	
Isobutyl Alcohol	78831	IRIS	HEAST	ATC	
Isophorone	78591	IRIS	HEAST		
Isopropalin	33820530	IRIS	HEAST		
Isopropyl Acetate	108214			ATC	
Isopropyl methyl phosphonic ac	1832548	IRIS			
Isoxaben	82558507	IRIS			
Lead	7439921	ShortForm	ShortForm	ATC	
Lead Alkyls		Withdrawn from HEAST	Withdrawn from HEAST		

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		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Lead Subacetate	1335326			ATC	
Linuron	330552	IRIS	HEAST		
Londax	83055996	IRIS			
Malathion	121755	IRIS	HEAST		
Maleic Anhydride	108316	IRIS	HEAST	ATC	
Maleic Hydrazide	123331	IRIS	HEAST		
Malonomitrite	109773	HEAST	HEAST		
Mancozeb	8018017	HEAST	HEAST		
Maneb	12427382	IRIS	HEAST		
Manganese	7439965	Contact ORS	Contact ORS	IRIS	Withdrawn from HEAST
MCPA	94746	IRIS	Withdrawn from HEAST		
MCPB	94815	IRIS	Withdrawn from HEAST		
MCPP	93652	IRIS	Withdrawn from HEAST		
Mephosfolan	950107	HEAST	HEAST		
Mepiquat Chloride	24307264	IRIS			
Mercury, alkyl				ATC	
Mercury (Elemental)	7439976	Withdrawn from HEAST	Withdrawn from HEAST	IRIS	HEAST
Merphos	150505	IRIS	HEAST		
Merphos Oxide	78488	IRIS	HEAST		
Methacrylonitrile	126987	IRIS	HEAST	HEAST	HEAST
Methanol	67561	IRIS	HEAST	ATC	
Methomyl	16752775	IRIS	HEAST		
Methoxychlor	72435	IRIS	HEAST		
Methoxyethanol, 2-	109864	HEAST	HEAST	IRIS	HEAST
Methoxyethanol Acetate, 2-	110496	HEAST	HEAST		
Methoxy-5-nitroaniline, 2-	99592				
Methyl Acetate	79209	HEAST	HEAST		
Methyl Acrylate	96333	HEAST	HEAST	ATC	
Methyl Bromide	74839	IRIS	Withdrawn from HEAST	IRIS	Withdrawn from HEAST
Methyl Chloride	74873				
Methyl Ethyl Ketone	78933	IRIS	HEAST	IRIS	HEAST
Methyl Isobutyl Ketone	108101	HEAST	HEAST	HEAST	HEAST
Methyl Isocyanate	624839				
Methyl Mercury	22967926	IRIS	HEAST	ATC	
Methyl Methacrylate	80626	IRIS	HEAST	IRIS	
Methyl Parathion	298000	IRIS	HEAST		
Methyl Styrene	25013154	HEAST	HEAST	HEAST	HEAST
Methyl Styrene, alpha	98839	HEAST	HEAST		
Methylaniline, 2-	95534				
Methylaniline Hydrochloride, 2-	636215				
Methylene Bromide	74953	HEAST	HEAST		
Methylenebisbenzenamine, 4,4-	101779				
Methylenebis(N,N'...)anil, 4,4-	101611				

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Methylhydrazine	60344				
Methyl-5-nitroaniline, 2-	99558				
Methyl-tert-Butyl Ether	1634044	Developed by DEP/ORS		IRIS	
Metolachlor	51218452	IRIS	HEAST		
Mirex	2385855	IRIS	HEAST		
Molinate	2212671	IRIS	HEAST		
Molybdenum	7439987	IRIS	HEAST		
Monochloramine	10599903	IRIS	HEAST		
Naphthalene	91203	IRIS	Withdrawn from HEAST	IRIS	
Napropamide	15299997	IRIS			
Niagara Blue 4B	2429745				
Nickel	7440020	IRIS	HEAST	ATC	
Nickel Carbonyl	13463393				
Nickel Oxide				ATC	
Nickel Subsulfide	12035722				
Nickel (dust)	00020			ATC	
Nitrapyrin	1929824	Withdrawn from IRIS			
Nitrate	14797558	IRIS			
Nitrite	14797650	IRIS	HEAST		
Nitrobenzene	98953	IRIS	HEAST	HEAST	HEAST
Nitrofurantoin	67209	HEAST	HEAST		
Nitrofurazone	59870				
Nitroguanidine	556887	IRIS			
Nitropropane, 2-	79469			IRIS	HEAST
Nitrotoluene, m-	99081	HEAST	HEAST		
Nitrotoluene, o-	88722	HEAST	HEAST		
Nitrotoluene, p-	99990	HEAST	HEAST		
Norflurazon	27314132	IRIS			
N-Nitrosodiethanolamine	1116547				
N-Nitrosodiethylamine	55185				
N-Nitrosodimethylamine	62759				
N-Nitrosodiphenylamine	86306				
N-Nitrosodi-n-butylamine	924163				
N-Nitrosodi-n-propylamine	621647				
N-Nitrosomethylethylamine	10595956				
N-Nitrosomethylvinylamine	4549400				
Octabromodiphenyl Ether	32536520	IRIS	HEAST		
Octamethylpyrophosphoramide	152169	HEAST	HEAST		
Oxamyl	23135220	IRIS			
Parathion	56382	HEAST	HEAST		
PBBs		HEAST	HEAST		
PCBs	1336363	IRIS	HEAST	ATC	
Pebulate	1114712	HEAST	HEAST		

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		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Pendimethalin	40487421	IRIS		HEAST	
Pentabromodiphenyl Ether	32534819	IRIS		HEAST	
Pentabromo...cy.hexa, 1,2,3,4,5-	87843				
Pentachlorobenzene	608935	IRIS		HEAST	
Pentachloronitrobenzene	82688	IRIS		HEAST	
Pentachlorophenol	87865	IRIS		HEAST	ATC
Permethrin	52645531	IRIS			
Phenanthren	85018				
Phenol	108952	IRIS		HEAST	ATC
Phenylenediamine, m-	108452	IRIS		HEAST	
Phenylenediamine, o-	95545				
Phenylphenol, 2-	90437				
Phosgene	75445				
Phosmet	732116	IRIS			
Phosphine	7803512	IRIS		HEAST	
Phosphoric Acid	7664382			IRIS	HEAST
Phosphorus, white	7723140	IRIS			
Phthalic Acid, p-	100210	HEAST		HEAST	
Phthalic Anhydride	85449	IRIS		HEAST	HEAST
Picloram	1918021	IRIS			
Polyaromatic Hydrocarbons (PAH)					
Profluralin	26399360	HEAST		HEAST	
Prometon	1610180	IRIS			
Prometryn	7287196	IRIS			
Pronamide	23950585	IRIS		HEAST	
Propachlor	1918167	IRIS		HEAST	
Propazine	139402	IRIS		HEAST	
Propyl Alcohol	71238			ATC	
Propylene Glycol	57556	HEAST		HEAST	Withdrawn from HEAST
Propylene Glycol Monoethyl Eth	1569024	HEAST		HEAST	Withdrawn from HEAST
Propylene Glycol Monomethyl Et	107982	HEAST		HEAST	HEAST
Propylene Oxide	75569			IRIS	HEAST
Pyrene	129000	IRIS		HEAST	
Pyridine	110861	IRIS		HEAST	
Quinoline	91225				
Quinone	106514				
Resorcinol	108463			ATC	
Ronnel	299843	HEAST		HEAST	
Rotenone	83794	IRIS			
Selenious Acid	7783008	IRIS		HEAST	
Selenium	7782492	IRIS		HEAST	ATC
Selenium Sulfide	7446346				ATC
Silver	7440224	IRIS		HEAST	Contact ORS
					Contact ORS

**CHEMICAL REFERENCES / NON-CANCER**

Chemical Name	CAS Number	Chronic	Subchronic	Chronic	Subchronic
		Oral RfD	Oral RfD	Inhalation RfC	Inhalation RfC
		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Simazine	122349	IRIS	HEAST		
Sodium Cyanide	143339	IRIS	HEAST		
Sodium Diethyldithiocarbamate	148185	IRIS	HEAST		
Sodium Metavanadate	13718268	HEAST	HEAST		
Strontium	7440246	IRIS	HEAST		
Styrene	100425	IRIS	Withdrawn from HEAST	IRIS	HEAST
Sulfuric Acid	7664939			ATC	
TCDD, 2,3,7,8-	1746016				
TCMTB	21564170	HEAST	HEAST		
Tebuthiuron	34014181	IRIS			
Temephos	3383968	HEAST	HEAST		
Terbacil	5902512	IRIS			
Terbufos	13071799	HEAST	HEAST		
Terbutryn	886500	IRIS			
Tetrachlorodifluoroethane				ATC	
Tetrachloroethane, 1,1,1,2-	630206	IRIS	HEAST		
Tetrachloroethane, 1,1,2,2-	79345			ATC	
Tetrachloroethylene	127184	IRIS	HEAST	ATC	
Tetrachlorophenol, 2,3,4,6-	58902	IRIS	HEAST		
Tetrachlorotoluene, p,a,a,a-	5216251				
Tetrachlorovinphos	961115	IRIS	HEAST		
Tetraethyl Lead	78002	IRIS	Withdrawn from HEAST		
Tetrahydrafuran	109999	Developed by DEP/ORS		ATC	
Thallic Oxide	1314325	Withdrawn from HEAST	Withdrawn from HEAST		
Thallium	7440280	Withdrawn from HEAST	Withdrawn from HEAST	Contact ORS	Contact ORS
Thallium Acetate	563688	IRIS	HEAST		
Thallium Carbonate	6533739	IRIS	HEAST		
Thallium Chloride	7791120	IRIS	HEAST		
Thallium Nitrate	10102451	IRIS	HEAST		
Thallium Selenite	12039520	Withdrawn from IRIS	Withdrawn from HEAST		
Thallium Sulfate	7446186	IRIS	HEAST		
Thiofanox	39196184	HEAST	HEAST		
Thiram	137268	IRIS	HEAST		
Tin	7440315	HEAST	HEAST		
Toluene	108883	IRIS	HEAST	IRIS	Withdrawn from HEAST
Toluene Diisocyanate	584849			ATC	
Toluenediamine, 2,4-	95807				
Toluene-2,5-diamine	95705	HEAST	HEAST		
Toluene-2,6-diamine	823405	HEAST	HEAST		
Toluidine, o-	95534			ATC	
Toluidine, p-	106490				
Toxaphene	8001352				
TP, 2,4,5-	93721	IRIS			

**CHEMICAL REFERENCES / NON-CANCER**

Chemical Name	CAS Number	Chronic	Subchronic	Chronic	Subchronic
		Oral RfD	Oral RfD	Inhalation RfC	Inhalation RfC
		mg/kg/day REF	mg/kg/day REF	mg/cu m REF	mg/cu m REF
Triallate	2303175	IRIS	HEAST		
Tribromobenzene, 1,2,4-	615543	IRIS	HEAST		
Trichloroaniline, 2,4,6-	634935				
Trichloroaniline Hydroch, 2,4,6-	33663502				
Trichlorobenzene, 1,2,4-	120821	IRIS	HEAST	HEAST	HEAST
Trichloroethane, 1,1,1-	71556	Withdrawn from HEAST	Withdrawn from HEAST	ATC	Withdrawn from HEAST
Trichloroethane, 1,1,2-	79005	IRIS	HEAST	ATC	
Trichloroethylene	79016	ShortForm	ShortForm	ATC	
Trichlorofluoromethane	75694	IRIS	HEAST	HEAST	HEAST
Trichlorophenol, 2,4,5-	95954	IRIS	HEAST		
Trichlorophenol, 2,4,6-	88062				
Trichloropropane, 1,1,2-	598776	IRIS	HEAST		
Trichloropropane, 1,2,3-	96184	IRIS	HEAST		
Trichloropropene, 1,2,3-	96195	HEAST	HEAST		
Trichlorotrifluoroethane	76131	IRIS	HEAST	HEAST	HEAST
Triethylamine	121448			IRIS	
Trifluralin	1582098	IRIS	HEAST		
Trimethyl Phosphate	512561				
Trinitrobenzene, 1,3,5-	99354	IRIS	HEAST		
Vanadium	7440622	HEAST	HEAST	ATC	
Vanadium Pentoxide	1314621	IRIS	HEAST	ATC	
Vanadium Sulfate	36907423	HEAST	HEAST		
Vernam	1929777	IRIS	HEAST		
Vinyl Acetate	108054	HEAST	HEAST	IRIS	HEAST
Vinyl Bromide	593602			IRIS	
Vinyl Chloride	75014	ShortForm	ShortForm	ATC	Withdrawn from HEAST
Xylenes	1330207	IRIS	Withdrawn from HEAST	ATC	
Zinc	7440666	IRIS	HEAST	Contact ORS	Contact ORS
Zineb	12122677	IRIS	HEAST		

IRIS = EPA's Integrated Risk Information System  
 ATC = Allowable Threshold Concentration as  
     listed in the ORS Guidance Document  
 HEAST = EPA's Health Effects Assessment Summary (3/93)  
 ShortForm = developed for ORS's Residential Shortform  
 CHEM/AAL = Chemical Health Effects Assessment Methodology  
     and the Method to Derive Allowable Ambient Limits (ORS)

### CHEMICAL REFERENCES / CANCER

Chemical Name	CAS Number	Oral Carcin	Inhalation	DrinkWater	Inhalation
		Slope Factor 1/(mg/kg/day) REF	Carcin Slope Factor 1/(mg/kg/day) REF	Oral Unit Risk 1/(ug/L) REF	Unit Risk 1/(ug/cu m) REF
Acenaphthene	83329				
Acenaphthylene	208968	IRIS	IRIS		
Acephate	30560191	IRIS		IRIS	
Acetaldehyde	75070		IRIS		
Acetone	67641	IRIS	IRIS		IRIS
Acetone Cyanohydrin	75865				
Acetonitrile	75058	IRIS	IRIS		
Acetophenone	98862	IRIS	IRIS		
Acetyl Chloride	75365	IRIS	IRIS		
Acifluorfen, sodium	62476599				
Acrolein	107028	IRIS	IRIS		
Acrylamide	79061	IRIS	HEAST, IRIS	IRIS	IRIS
Acrylic acid	79107				
Acrylonitrile	107131	IRIS	HEAST, IRIS	IRIS	IRIS
Alachlor	15972608	HEAST	HEAST	HEAST	
Aldicarb	116063	IRIS	IRIS		
Aldicarb sulfone	1646884				
Aldrin	309002	IRIS	HEAST, IRIS	IRIS	IRIS
Alkanes/Alkenes					
Allyl Alcohol	107186				
Allyl Chloride	107051	IRIS	IRIS		
Aluminum phosphide	20859738				
Ametryn	834128				
Aminophenol, m-	591275				
Aminopyridine, 4-	504245	IRIS	IRIS		
Ammonia	7664417				
Ammonium Acetate	631618	IRIS	IRIS		
Ammonium Methacrylate	16325476	IRIS	IRIS		
Aniline	62533	IRIS	IRIS	IRIS	CHEM/AAL
Anthracene	120127	IRIS	IRIS		
Antimony	7440360				
Antimony Pentoxide	1314609				
Antimony Potassium Tartrate	28300745				
Antimony Tetroxide					
Antimony Trioxide	1309644				
Apollo	74115245	IRIS	IRIS		
Aramite	140578	IRIS	HEAST, IRIS	IRIS	IRIS
Aroclor 1016	12674112	Contact ORS	Contact ORS	Contact ORS	Contact ORS
Aroclor 1254	11097691	Contact ORS	Contact ORS	Contact ORS	Contact ORS
Arsenic	7440382	IRIS	W/drawn HEAST, IRIS	IRIS	IRIS
Asbestos	1332214	IRIS	IRIS		IRIS
Assure	76578148	IRIS	IRIS		
Atrazine	1912249	HEAST	HEAST	HEAST	

**CHEMICAL REFERENCES / CANCER**

Chemical Name	CAS Number	Oral Carcin Slope Factor 1/(mg/kg/day) REF	Inhalation Carcin Slope Factor 1/(mg/kg/day) REF	DrinkWater Oral Unit Risk 1/(ug/L) REF	Inhalation Unit Risk 1/(ug/cu m) REF
Azobenzene	103333	IRIS	HEAST, IRIS	IRIS	IRIS
Barium	7440393				
Barium Cyanide	542621				
Baygon	114261				
Bayleton	43121433				
Benefin	1861401				
Benzaldehyde	100527				
Benzene	71432	IRIS	HEAST, IRIS	IRIS	IRIS
Benzidine	92875	IRIS	W/drawn IRIS, IRIS	IRIS	IRIS
Benzoic acid	65850	IRIS	IRIS		
Benzotrichloride	98077	IRIS	IRIS	IRIS	
Benzo(a)anthracene	56553	IRIS	IRIS		
Benzo(b)fluoranthene	205992	IRIS	IRIS		
Benzo[a]pyrene	50328	IRIS	W/drawn HEAST, IRIS	IRIS	Withdrawn from HEAST
Benzo[k]fluoranthene	207089	IRIS	IRIS		
Benzyl Alcohol	100516				
Benzyl Chloride	100447	IRIS	IRIS	IRIS	
Beryllium	7440417	Withdrawn from IRIS	HEAST, IRIS	Withdrawn from IRIS	IRIS
Biphenthrin	82657043				
Biphenyl, 1,1-	92524	IRIS	IRIS		
Bisphenol A	80057				
Bis(2chloro-1methylethyl)ether	108601	HEAST	HEAST	HEAST	HEAST
Bis(2-chloroethyl)ether	111444	IRIS	HEAST, IRIS	IRIS	IRIS
Bis(2-ethylhexyl)phthalate	117817	IRIS	IRIS	IRIS	CHEM/AAL
Bis(chloromethyl)ether	542881	IRIS	HEAST, IRIS	IRIS	IRIS
Boron	7440428				
Bromodichloromethane	75274	IRIS	IRIS	IRIS	
Bromoform	75252	IRIS	HEAST, IRIS	IRIS	IRIS
Bromomethane	74839	IRIS	IRIS		
Bromophos					
Bromoxynil	1689845				
Bromoxynil Octanoate	1689992			Withdrawn from IRIS	
Butadiene, 1,3-	106990		HEAST, IRIS		IRIS
Butanol, n-	71363	IRIS	IRIS		
Butyl Benzyl Phthalate	85687	IRIS	IRIS		
Butylate	2008415				
Butylphthalyl Butylglycolate	85701				
Cacodylic Acid	75605	IRIS	IRIS		
Cadmium	7440439	IRIS	W/drawn IRIS, IRIS		IRIS
Calcium Chromate	13765190				
Calcium Cyanide	592018				
Caprolactam	105602				
Captafol	2425061	HEAST	HEAST	HEAST	

**CHEMICAL REFERENCES / CANCER**

Chemical Name	CAS Number	Oral Carcin Slope Factor 1/(mg/kg/day) REF	Inhalation Carcin Slope Factor 1/(mg/kg/day) REF	DrinkWater Oral Unit Risk 1/(ug/L) REF	Inhalation Unit Risk 1/(ug/cu m) REF
Captan	133062	HEAST	HEAST	HEAST	
Carbaryl	63252				
Carbazole	86748	HEAST	HEAST	HEAST	
Carbofuran	1563662				
Carbon Disulfide	75150				
Carbon Tetrachloride	56235	IRIS	HEAST, IRIS	IRIS	IRIS
Carboxin	5234684				
Chloral	75876				
Chloramben	133904				
Chloranil	118752	HEAST	HEAST	HEAST	
Chlordane	57749	IRIS	HEAST, IRIS	IRIS	IRIS
Chlorine	7782505				
Chlorine Dioxide	10049044	IRIS	IRIS		
Chloroacetic Acid	79118				
Chloroacetophenone, 2-	532274				
Chloroaniline, 4-	106478				
Chlorobenzene	108907	IRIS	IRIS		
Chlorobenzilate	510156	HEAST	HEAST	HEAST	HEAST
Chlorobenzoic Acid, para-	74113				
Chlorobenzotrifluoride, 4-					
Chlorobutane, 1-	109693	IRIS	IRIS		
Chlorobutane, 2-	78864	IRIS	IRIS		
Chloroethane	75003				
Chloroform	67663	IRIS	HEAST, IRIS	IRIS	IRIS
Chloromethane	74873	HEAST	HEAST	HEAST	HEAST
Chloromethyl Methyl Ether	107302	IRIS	IRIS		
Chloronaphthalene, beta	91587				
Chloronitrobenzene, o-	88733	HEAST	HEAST	HEAST	
Chloronitrobenzene, p-	100005	HEAST	HEAST	HEAST	
Chlorophenol, 2-	95578				
Chloroprene	126998				
Chloropropane, 2-					
Chlorothalonil	1897456	HEAST	HEAST	HEAST	
Chloro-2-2-methyl-aniline Hy, 4-	3165933	HEAST	HEAST	HEAST	
Chloro-2-methyl-aniline, 4-	95692	HEAST	HEAST	HEAST	
Chlorpropham	101213				
Chlorpyrifos	2921882				
Chlorpyrifos-methyl	5598130				
Chlorsulfuron	64902723				
Chlorthiophos	21923239				
Chromic Acid	7738945				
Chromium III	16065831				
Chromium VI	18540299		HEAST, IRIS	IRIS	

### CHEMICAL REFERENCES / CANCER

Chemical Name	CAS Number	Oral Carcin	Inhalation	DrinkWater	Inhalation
		Slope Factor 1/(mg/kg/day) REF	Carcin Slope Factor 1/(mg/kg/day) REF	Oral Unit Risk 1/(ug/L) REF	Unit Risk 1/(ug/cu m) REF
Chrysene	218019	IRIS	IRIS		
Coal Tars					
Coke Oven Emissions	8007452		HEAST, IRIS		IRIS
Copper	7440508	IRIS	IRIS		
Creosote	8001589	IRIS	IRIS		
Cresol, meta-	108394	IRIS	IRIS		
Cresol, ortho-	95487	IRIS	IRIS		
Cresol, para-	106445	IRIS	IRIS		
Crotonaldehyde	123739	HEAST	W/drawn from HEAST, IRIS	HEAST	Withdrawn from HEAST
Cumene	98828				
Cyanazine	21725462	HEAST		HEAST	
Cyanide	57125	IRIS	IRIS		
Cyanogen	460195				
Cyclohexane	110827				
Cyclohexylamine	108918				
Cyclonite (RDX)	121824	IRIS	HEAST		
Cyromazine	66215278				
D, 2,4-	94757				
Dacthal (DCPA)	1861321				
Dalapon (sodium salts)	75990				
DB, 2,4-	94826				
DBCP	96128	HEAST	HEAST	HEAST	HEAST
DDD	72548	IRIS	IRIS	IRIS	
DDE	72559	IRIS	IRIS	IRIS	
DDT	50293	IRIS	HEAST, IRIS	IRIS	IRIS
Decabromodiphenyl Ether	1163195	IRIS	IRIS		
Demeton	8065483				
Diallate	2303164	HEAST	HEAST	HEAST	
Diazinon	333415				
Dibenzofuran	132649	IRIS	IRIS		
Dibromobenzene, 1,4-	106376				
Dibromochloromethane	124481	IRIS	IRIS	IRIS	
Dibromoethane, 1,2-	106934	IRIS	HEAST, IRIS	IRIS	IRIS
Dicamba	1918009				
Dichlorobenzene, 1,3-	541731	IRIS	IRIS		
Dichlorobenzene, ortho-	95501	IRIS	IRIS		
Dichlorobenzene, para-	106467	HEAST	HEAST	HEAST	
Dichlorobenzidene, 3,3-	91941	IRIS	IRIS	IRIS	
Dichlorodifluoromethane	75718				
Dichloroethane, 1,1-	75343	IRIS	IRIS		
Dichloroethane, 1,2-	107062	IRIS	W/drawn HEAST, IRIS	IRIS	IRIS
Dichloroethylene, 1,1-	75354	IRIS	HEAST, IRIS	IRIS	IRIS
Dichloroethylene, cis-1,2-	156592	IRIS	IRIS		

**CHEMICAL REFERENCES / CANCER**

Chemical Name	CAS Number	Oral Carcin Slope Factor 1/(mg/kg/day) REF	Inhalation Carcin Slope Factor 1/(mg/kg/day) REF	DrinkWater Oral Unit Risk 1/(ug/L) REF	Inhalation Unit Risk 1/(ug/cu m) REF
Dichloroethylene, trans-1,2-	156605				
Dichloroethylene (mixed)	540590				
Dichloromethane	75092	IRIS	IRIS	IRIS	IRIS
Dichlorophenol, 2,4-	120832				
Dichloropropane, 1,2-	78875	HEAST	HEAST	HEAST	CHEM/AAL
Dichloropropanol, 2,3-	616239				
Dichloropropene, 1,3-	542756	HEAST, IRIS	HEAST, IRIS	HEAST	HEAST
Dichloro-2-butene, 1,4-	764410	HEAST	HEAST		HEAST
Dichlorvos	62737	IRIS	IRIS	IRIS	
Dicofol	115322	Withdrawn from IRIS		Withdrawn from IRIS	
Dicyclopentadiene					
Diieldrin	60571	IRIS	HEAST, IRIS	IRIS	IRIS
Diethyl Phthalate	84662	IRIS	IRIS		
Diethylene Glycol Monobutyl Et	112345				
Diethylene Glycol Monoethyl Et	111900				
Diethylformamide					
Diethyl-p-nitrophenylphosphate	311455	IRIS	IRIS		
Diflubenzuron	35367385				
Dimethoate	60515				
Dimethoxybenzidine, 3,3-	119904	HEAST	HEAST	HEAST	
Dimethyl Sulfate	77781	IRIS	IRIS		
Dimethyl Terephthalate	120616				
Dimethylamine	124403				
Dimethylaniline, 2,4-	121697	HEAST	HEAST	HEAST	
Dimethylaniline Hydrochlor, 2,4-	21436964	HEAST	HEAST	HEAST	
Dimethylbenzidine, 3,3-	119937	HEAST	HEAST	HEAST	
Dimethylformamide, N,N-	68122				
Dimethylhydrazine, 1,1-	57147	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST
Dimethylhydrazine, 1,2-	540738	W/drawn HEAST, HEAST	W/drawn HEAST, HEAST	Withdrawn from HEAST	Withdrawn from HEAST
Dimethylphenol, 2,4-	105679				
Dimethylphenol, 2,6-	576261				
Dimethylphenol, 3,4-	95658				
Dimethylphthalate	131113	IRIS	IRIS		
DIMP	1445756	IRIS	IRIS		
Dinitrobenzene, m-	99650	IRIS	IRIS		
Dinitrobenzene, o-	528290	IRIS	IRIS		
Dinitrobenzene, p-	100254				
Dinitrophenol, 2,4-	51285				
Dinitrotoluene, 2,4-	121142	HEAST, IRIS	IRIS	HEAST	
Dinitrotoluene, 2,6-	606202	HEAST, IRIS	IRIS	HEAST	
Dinitrotoluene (mixture)		IRIS	IRIS	IRIS	
Dinitro-o-cresol, 4,6-	534521				
Dinoseb	88857	IRIS	IRIS		

**CHEMICAL REFERENCES / CANCER**

Chemical Name	CAS Number	Oral Carcin Slope Factor 1/(mg/kg/day) REF	Inhalation Carcin Slope Factor 1/(mg/kg/day) REF	DrinkWater Oral Unit Risk 1/(ug/L) REF	Inhalation Unit Risk 1/(ug/cu m) REF
Dioxane, 1,4-	123911	IRIS	IRIS	IRIS	CHEM/AAL
Diphenamid	957517				
Diphenyl	92524				
Diphenylamine, N,N-	122394				
Diphenylhydrazine, 1,2-	122667	IRIS	HEAST, IRIS	IRIS	IRIS
Diquat	85007				
Direct Black 38	1937377	HEAST	HEAST	HEAST	
Direct Blue 6	2602462	HEAST	HEAST	HEAST	
Direct Brown 95	16071866	HEAST	HEAST	HEAST	
Direct Sky Blue 6B	2610051	HEAST	HEAST		
Disulfoton	298044				
Dithiane, 1,4-	505293	IRIS	IRIS		
Di(2-ethylhexyl)adipate	103231	IRIS	IRIS	IRIS	
Di-n-butyl Phthalate	84742	IRIS	IRIS		
Dodine	2439103				
Endosulfan	115297				
Endothall	145733				
Endrin	72208	IRIS	IRIS		
Epichlorohydrin	106898	IRIS	HEAST, IRIS	IRIS	IRIS
Epoxybutane, 1,2-	106887				
Ethanol	64175				
Ethion	563122				
Ethoxyethanol, 2-	110805				
Ethoxyethanol Acetate, 2-					
Ethyl Acetate	141786				
Ethyl Acrylate	140885	HEAST	HEAST	HEAST	
Ethyl Chloride	75003				
Ethyl Dipropylthiocarbamate,S-	759944				
Ethyl Ether	60297				
Ethyl Methacrylate	97632				
Ethyl p-Nitrophenyl Phenylphos	2104645				
Ethylbenzene	100414	IRIS	IRIS		
Ethylene Cyanohydrin					
Ethylene Dibromide	106934	IRIS	W/drawn IRIS, IRIS	IRIS	IRIS
Ethylene Glycol	107211				
Ethylene Glycol Monobutyl Ethe	111762				
Ethylene Oxide	75218	HEAST	HEAST	HEAST	HEAST
Ethylene Thiourea	96457	HEAST	HEAST	HEAST	
Ethylenediamine	107153	IRIS	IRIS		
Express	101200480				
Fenamiphos	22224926				
Fluoranthene	206440	IRIS	IRIS		
Fluorene	86737	IRIS	IRIS		

### CHEMICAL REFERENCES / CANCER

Chemical Name	CAS Number	Oral Carcin	Inhalation	DrinkWater	Inhalation
		Slope Factor 1/(mg/kg/day) REF	Carcin Slope Factor 1/(mg/kg/day) REF	Oral Unit Risk 1/(ug/L) REF	Unit Risk 1/(ug/cu m) REF
Fluoride	7782414				
Fluridone	59756604				
Folpet	133073	IRIS	IRIS	IRIS	
Fonofos	944229				
Formaldehyde	50000	W/drawn HEAST, IRIS	HEAST, IRIS	Withdrawn from HEAST	IRIS
Furan	110009				
Furazolidone	67458	HEAST	HEAST	HEAST	
Furfural	98011				
Furium	531828	HEAST	HEAST	HEAST	
Glycidaldehyde	765344	IRIS	IRIS		
Heptachlor	76448	IRIS	HEAST, IRIS	IRIS	IRIS
Heptachlor Epoxide	1024573	IRIS	HEAST, IRIS	IRIS	IRIS
Heptane, n-	142825	IRIS	IRIS		
Hexabromobenzene	87821				
Hexachlorobenzene	118741	IRIS	HEAST, IRIS	IRIS	IRIS
Hexachlorobutadiene	87683	IRIS	HEAST, IRIS	IRIS	IRIS
Hexachlorocyclohexane, alpha-	319846	IRIS	HEAST, IRIS	IRIS	IRIS
Hexachlorocyclohexane, beta-	319857	IRIS	HEAST, IRIS	IRIS	IRIS
Hexachlorocyclohexane, delta-	319868	IRIS	IRIS		
Hexachlorocyclohexane, epsilon	6108107	IRIS	IRIS		
Hexachlorocyclohexane, gamma-	58899	HEAST	HEAST	HEAST	
Hexachlorocyclopentadiene	77474	IRIS	IRIS		
Hexachloroethane	67721	IRIS	HEAST, IRIS	IRIS	IRIS
Hexachlorophene	70304				
Hexane, n-	110543				
Hexanone, 2-	591786				
Hexazinone	51235042				
Hydrazine	302012	IRIS	HEAST, IRIS	IRIS	IRIS
Hydrogen Chloride	7647010				
Hydrogen Cyanide	74908				
Hydrogen Fluoride	7664393				
Hydrogen Sulfide	7783064				
Hydroquinone	123319				
Isoamyl Acetate	123922				
Isobutyl Acetate	110190				
Isobutyl Alcohol	78831				
Isophorone	78591	IRIS		IRIS	
Isopropalin	33820530				
Isopropyl Acetate	108214				
Isopropyl methyl phosphonic ac	1832548	IRIS	IRIS		
Isoxaben	82558507	IRIS	IRIS		
Lead	7439921	IRIS	IRIS		
Lead Alkyls					

**CHEMICAL REFERENCES / CANCER**

Chemical Name	CAS Number	Oral Carcin Slope Factor 1/(mg/kg/day) REF	Inhalation Carcin Slope Factor 1/(mg/kg/day) REF	DrinkWater Oral Unit Risk 1/(ug/L) REF	Inhalation Unit Risk 1/(ug/cu m) REF
Lead Subacetate	1335326				
Linuron	330552	IRIS	IRIS		
Londax	83055996				
Malathion	121755				
Maleic Anhydride	108316				
Maleic Hydrazide	123331				
Malonomitrite	109773				
Mancozeb	8018017				
Maneb	12427382				
Manganese	7439965	IRIS	IRIS		
MCPA	94746				
MCPB	94815				
MCPP	93652				
Mephosfolan	950107				
Mepiquat Chloride	24307264				
Mercury, alkyl					
Mercury (Elemental)	7439976	IRIS	IRIS		
Merphos	150505				
Merphos Oxide	78488				
Methacrylonitrile	126987				
Methanol	67561				
Methomyl	16752775				
Methoxychlor	72435	IRIS	IRIS		
Methoxyethanol, 2-	109864				
Methoxyethanol Acetate, 2-	110496				
Methoxy-5-nitroaniline, 2-	99592	HEAST	HEAST	HEAST	
Methyl Acetate	79209				
Methyl Acrylate	96333	IRIS	IRIS		
Methyl Bromide	74839	IRIS	IRIS		
Methyl Chloride	74873	HEAST	HEAST	HEAST	HEAST
Methyl Ethyl Ketone	78933	IRIS	IRIS		
Methyl Isobutyl Ketone	108101				
Methyl Isocyanate	624839				
Methyl Mercury	22967926	IRIS	IRIS		
Methyl Methacrylate	80626				
Methyl Parathion	298000				
Methyl Styrene	25013154				
Methyl Styrene, alpha	98839				
Methylaniline, 2-	95534	HEAST	HEAST	HEAST	
Methylaniline Hydrochloride, 2-	636215	HEAST	HEAST	HEAST	
Methylene Bromide	74953				
Methylenebisbenzenamine, 4,4-	101779	Withdrawn from HEAST		Withdrawn from HEAST	
Methylenebis(N,N'...)anil, 4,4-	101611	IRIS	IRIS	IRIS	

### CHEMICAL REFERENCES / CANCER

Chemical Name	CAS Number	Oral Carcin	Inhalation	DrinkWater	Inhalation
		Slope Factor 1/(mg/kg/day) REF	Carcin Slope Factor 1/(mg/kg/day) REF	Oral Unit Risk 1/(ug/L) REF	Unit Risk 1/(ug/cu m) REF
Methylhydrazine	60344	Withdrawn from HEAST		Withdrawn from HEAST	
Methyl-5-nitroaniline, 2-	99558	HEAST	HEAST		
Methyl-tert-Butyl Ether	1634044				
Metolachlor	51218452	IRIS	IRIS		
Mirex	2385855	W/drawn HEAST, HEAST	HEAST		W/drawn HEAST
Molinate	2212671				
Molybdenum	7439987				
Monochloramine	10599903	IRIS	IRIS		
Naphthalene	91203	IRIS	IRIS		
Napropamide	15299997				
Niagara Blue 4B	2429745	HEAST	HEAST		
Nickel	7440020	HEAST	HEAST, IRIS		IRIS
Nickel Carbonyl	13463393	IRIS	IRIS		
Nickel Oxide					
Nickel Subsulfide	12035722		HEAST, IRIS		IRIS
Nickel (dust)	00020		HEAST, IRIS		IRIS
Nitrapyrin	1929824				
Nitrate	14797558				
Nitrite	14797650				
Nitrobenzene	98953	IRIS	IRIS		
Nitrofurantoin	67209				
Nitrofurazone	59870	HEAST	HEAST	HEAST	
Nitroguanidine	556887	IRIS	IRIS		
Nitropropane, 2-	79469	W/drawn HEAST, HEAST	HEAST	Withdrawn from HEAST	HEAST
Nitrotoluene, m-	99081				
Nitrotoluene, o-	88722				
Nitrotoluene, p-	99990				
Norflurazon	27314132				
N-Nitrosodiethanolamine	1116547	IRIS	IRIS	IRIS	
N-Nitrosodiethylamine	55185	IRIS	HEAST, IRIS	IRIS	IRIS
N-Nitrosodimethylamine	62759	IRIS	HEAST, IRIS	IRIS	IRIS
N-Nitrosodiphenylamine	86306	IRIS	IRIS	IRIS	
N-Nitrosodi-n-butylamine	924163	IRIS	HEAST, IRIS	IRIS	IRIS
N-Nitrosodi-n-propylamine	621647	IRIS	IRIS	IRIS	
N-Nitrosomethylethylamine	10595956	IRIS	IRIS	IRIS	
N-Nitrosomethylvinylamine	4549400	HEAST	HEAST		
Octabromodiphenyl Ether	32536520	IRIS	IRIS		
Octamethylpyrophosphoramide	152169				
Oxamyl	23135220				
Parathion	56382	IRIS	IRIS		
PBBs		HEAST	HEAST	HEAST	
PCBs	1336363	Contact ORS	Contact ORS	Contact ORS	Contact ORS
Pebulate	1114712				

**CHEMICAL REFERENCES / CANCER**

Chemical Name	CAS Number	Oral Carcin Slope Factor 1/(mg/kg/day) REF	Inhalation Carcin Slope Factor 1/(mg/kg/day) REF	DrinkWater Oral Unit Risk 1/(ug/L) REF	Inhalation Unit Risk 1/(ug/cu m) REF
Pendimethalin	40487421				
Pentabromodiphenyl Ether	32534819	IRIS	IRIS		
Pentabromo...cy.hexa, 1,2,3,4,5-	87843	HEAST	HEAST	HEAST	
Pentachlorobenzene	608935	IRIS	IRIS		
Pentachloronitrobenzene	82688	HEAST	HEAST	HEAST	
Pentachlorophenol	87865	IRIS	IRIS	IRIS	
Permethrin	52645531				
Phenanthrene	85018	IRIS	IRIS		
Phenol	108952	IRIS	IRIS		
Phenylenediamine, m-	108452				
Phenylenediamine, o-	95545	HEAST	HEAST	HEAST	
Phenylphenol, 2-	90437	HEAST	HEAST	HEAST	
Phosgene	75445				
Phosmet	732116				
Phosphine	7803512	IRIS	IRIS		
Phosphoric Acid	7664382				
Phosphorus, white	7723140	IRIS	IRIS		
Phthalic Acid, p-	100210				
Phthalic Anhydride	85449				
Picloram	1918021				
Polyaromatic Hydrocarbons (PAH)					
Profluralin	26399360				
Prometon	1610180				
Prometryn	7287196				
Pronamide	23950585				
Propachlor	1918167				
Propazine	139402				
Propyl Alcohol	71238				
Propylene Glycol	57556				
Propylene Glycol Monoethyl Eth	1569024				
Propylene Glycol Monomethyl Et	107982				
Propylene Oxide	75569	IRIS	HEAST, IRIS	IRIS	IRIS
Pyrene	129000	IRIS	IRIS		
Pyridine	110861				
Quinoline	91225	HEAST	HEAST	HEAST	
Quinone	106514				
Resorcinol	108463				
Ronnel	299843				
Rotenone	83794				
Selenious Acid	7783008	IRIS	IRIS		
Selenium	7782492	IRIS	IRIS		
Selenium Sulfide	7446346	IRIS	IRIS		CHEM/AAL
Silver	7440224	IRIS	IRIS		

**CHEMICAL REFERENCES / CANCER**

Chemical Name	CAS Number	Oral Carcin	Inhalation	DrinkWater	Inhalation
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Simazine	122349	HEAST	HEAST	HEAST	
Sodium Cyanide	143339				
Sodium Diethyldithiocarbamate	148185	HEAST	HEAST	HEAST	
Sodium Metavanadate	13718268				
Strontium	7440246				
Styrene	100425	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST
Sulfuric Acid	7664939				
TCDD, 2,3,7,8-	1746016	HEAST	HEAST	HEAST	HEAST
TCMTB	21564170				
Tebuthiuron	34014181				
Temephos	3383968				
Terbacil	5902512				
Terbufos	13071799				
Terbutryn	886500				
Tetrachlorodifluoroethane					
Tetrachloroethane, 1,1,1,2-	630206	IRIS	HEAST, IRIS	IRIS	IRIS
Tetrachloroethane, 1,1,2,2-	79345	IRIS	HEAST, IRIS	IRIS	IRIS
Tetrachloroethylene	127184	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST	CHEM/AAL
Tetrachlorophenol, 2,3,4,6-	58902				
Tetrachlorotoluene, p,a,a,a-	5216251	HEAST	HEAST	HEAST	
Tetrachlorovinphos	961115	HEAST	HEAST	HEAST	
Tetraethyl Lead	78002				
Tetrahydrafuran	109999				
Thallic Oxide	1314325	IRIS	IRIS		
Thallium	7440280				
Thallium Acetate	563688	IRIS	IRIS		
Thallium Carbonate	6533739	IRIS	IRIS		
Thallium Chloride	7791120	IRIS	IRIS		
Thallium Nitrate	10102451	IRIS	IRIS		
Thallium Selenite	12039520	IRIS	IRIS		
Thallium Sulfate	7446186	IRIS	IRIS		
Thiofanox	39196184				
Thiram	137268				
Tin	7440315				
Toluene	108883	IRIS	IRIS		
Toluene Diisocyanate	584849				CHEM/AAL
Toluenediamine, 2,4-	95807	HEAST	HEAST	HEAST	
Toluene-2,5-diamine	95705				
Toluene-2,6-diamine	823405				
Toluidine, o-	95534	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST	CHEM/AAL
Toluidine, p-	106490	HEAST	HEAST	HEAST	
Toxaphene	8001352	IRIS	HEAST, IRIS	IRIS	IRIS
TP, 2,4,5-	93721	IRIS	IRIS		

### CHEMICAL REFERENCES / CANCER

Chemical Name	CAS Number	Oral Carcin Slope Factor 1/(mg/kg/day) REF	Inhalation Carcin Slope Factor 1/(mg/kg/day) REF	DrinkWater Oral Unit Risk 1/(ug/L) REF	Inhalation Unit Risk 1/(ug/cu m) REF
Triallate	2303175				
Tribromobenzene, 1,2,4-	615543				
Trichloroaniline, 2,4,6-	634935	HEAST	HEAST	HEAST	
Trichloroaniline Hydroch, 2,4,6-	33663502	HEAST	HEAST	HEAST	
Trichlorobenzene, 1,2,4-	120821	IRIS	IRIS		
Trichloroethane, 1,1,1-	71556	IRIS	IRIS		
Trichloroethane, 1,1,2-	79005	IRIS	HEAST, IRIS	IRIS	IRIS
Trichloroethylene	79016	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST	Withdrawn from HEAST
Trichlorofluoromethane	75694				
Trichlorophenol, 2,4,5-	95954				
Trichlorophenol, 2,4,6-	88062	IRIS	HEAST, IRIS	IRIS	IRIS
Trichloropropane, 1,1,2-	598776				
Trichloropropane, 1,2,3-	96184	HEAST	HEAST	HEAST	
Trichloropropene, 1,2,3-	96195				
Trichlorotrifluoroethane	76131				
Triethylamine	121448				
Trifluralin	1582098	IRIS	IRIS	IRIS	
Trimethyl Phosphate	512561	HEAST	HEAST	HEAST	
Trinitrobenzene, 1,3,5-	99354				
Vanadium	7440622				
Vanadium Pentoxide	1314621				
Vanadium Sulfate	36907423				
Vernam	1929777				
Vinyl Acetate	108054				
Vinyl Bromide	593602	HEAST	HEAST		HEAST
Vinyl Chloride	75014	HEAST	HEAST	HEAST	HEAST
Xylenes	1330207	IRIS	IRIS		
Zinc	7440666	IRIS	IRIS		
Zineb	12122677				

IRIS = EPA's Integrated Risk Information System

ATC = Allowable Threshold Concentration as  
listed in the ORS Guidance Document

HEAST = EPA's Health Effects Assessment Summary (3/93)

ShortForm = developed for ORS's Residential Shortform

CHEM/AAL = Chemical Health Effects Assessment Methodology  
and the Method to Derive Allowable Ambient Limits (ORS)